

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
STEVEN C. BRUESS
MERCHANT & GOULD P.C.
P.O. BOX 2903
MINNEAPOLIS, MN 55402-0903

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year) **21 FEB 2007**

Applicant's or agent's file reference
400062.215WO01

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/US04/24370

International filing date
(day/month/year) 29 July 2004 (29.07.2004)

Applicant
MICROSOFT CORPORATION

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70.

For more detailed instructions, see the notes on the accompanying sheet.
2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
 - ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
 - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO internet site.

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 272-3201

Authorized officer
Kim Vu

Telephone No. (571) 272-2100

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 400062.215WO01	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US04/24370	International filing date (day/month/year) 29 July 2004 (29.07.2004)	(Earliest) Priority Date (day/month/year) 23 October 2003 (23.10.2003)
Applicant MICROSOFT CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

a. With regard to the language, the international search was carried out on the basis of:



the international application in the language in which it was filed.



a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant. 0



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 1



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24370

A. CLASSIFICATION OF SUBJECT MATTER

IPC: H04L 9/32 (2007.01)

USPC: 713/171;726/2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 713/171;726/2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	Login-less Simplified Transaction Process. IBM tech. dis. bull., February 2002, Issue 454, page 362	7, 17, 27 1-6, 11-16, 21-26
Y	US 2003/0115342 (LORTZ) 19 June 2003 (19.06.2003), Figures 1, 2A, 2B and paragraphs 0003 and 0025	1-6, 11-16, 21-26

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"A" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

27 October 2006 (27.10.2006)

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Date of mailing of the international search report

21 FEB 2007

Authorized officer

Kim Vu *for Michelle R. Egan*

Telephone No. (571) 272-2100

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
STEVEN C. BRUESS
MERCHANT & GOULD P.C.
P.O. BOX 2903
MINNEAPOLIS, MN 55402-0903

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference 400062.215W001		Date of mailing (day/month/year) 21 FEB 2006
FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/US04/24370	International filing date (day/month/year) 29 July 2004 (29.07.2004)	Priority date (day/month/year) 23 October 2003 (23.10.2003)
International Patent Classification (IPC) or both national classification and IPC IPC: H04L 9/32 (2007.01) USPC: 713/171;726/2		
Applicant MICROSOFT CORPORATION		

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Date of completion of this opinion 26 October 2006 (26.10.2006)	Authorized officer Kim Vu <i>for Michelle R. Sauer</i> Telephone No. (571) 272-2100
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Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/24370

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in electronic form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/24370

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims 1-6, 8-16, 18-26 and 28-30 YES

Claims 7, 17, 27 NO

Inventive step (IS)

Claims 8-10, 18-20 and 28-30 YES

Claims 1-7, 11-17 and 21-27 NO

Industrial applicability (IA)

Claims 1-30 YES

Claims NONE NO

2. Citations and explanations:

Please See Continuation Sheet

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/24370

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.

V. 2. Citations and Explanations:

Claims 7, 17, and 27 lack novelty under PCT Article 33(2) as being anticipated by "Login-less Simplified Transaction Tool" (hereinafter, "IBM").

Regarding claims 7, 17, and 27:

IBM discloses a method, system, and computer program product for receiving an identity information document, comprising: receiving a signed identity information document from an originator (3rd paragraph), determining whether identity information is reliable (4th paragraph); and saving the identity information if it is determined to be reliable (3rd and 4th paragraph).

Claims 1-6, 11-16, and 21-26 lack an inventive step under PCT Article 33(3) as being obvious over "Login-less Simplified Transaction Tool" (hereinafter, "IBM") in view of U.S. Patent Application Publication 2003/0115342 (hereinafter, "Lortz").

Regarding claims 1, 11, and 21:

IBM discloses a method, system, and computer program product for sending an identity information document comprising: selecting identity information from a self-identity store for inclusion in the identity information document (IBM, 2nd paragraph); reading the selected identity information from a self-identity information store (ibid); and generating the identity information document to include the selected identity information, being signed using a [second] key (3rd and 4th paragraphs), and sending the identity information document to a recipient (4th paragraph).

Although IBM does not explicitly disclose using asymmetric (public/private key) encryption, the technique was well known in the art, as evidenced by Lortz (Figures 1 and 2A; paragraph 0003). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use asymmetric encryption in the generation of the identity information document, resulting in an embodiment where the identity information document includes a first key associated with the pre-existing key disclosed by IBM. The motivation for doing so would be to ensure integrity and non-repudiation in the authentication process (Lortz, paragraph 0003).

Regarding claims 2, 12, and 22:

IBM further discloses wherein the selection step is based on user input from a graphical user interface (the HTML forms, 2nd paragraph).

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/24370

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.

Regarding claims 3, 13, and 23:

IBM further suggests wherein selecting identity information comprises selecting a predetermined subset of information from the self-identity information store ("such as", 2nd paragraph).

Regarding claims 4, 14, and 24:

IBM further discloses encoding in XML (3rd and 4th paragraphs).

Regarding claims 5, 15, and 25:

IBM further discloses identity claims of a principal originating the identity information document (the applicant, 1st and 2nd paragraphs).

Regarding claims 6, 16, and 26:

Lortz further discloses use policies for defining uses to which the contents of the identity information may be put (paragraph 0018; combination on paragraph 0025).

Claims 8-10, 18-20, and 28-30 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the use of an Identification Recognition Number as part of a subsequent verification process if the identity information is found not to be reliable.

Claims 1-30 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.